

Service Manual

Radio Cassette
RX-5030F

FM/MW/SW₁/SW₂ Stereo Radio Cassette Recorder



■ SPECIFICATIONS

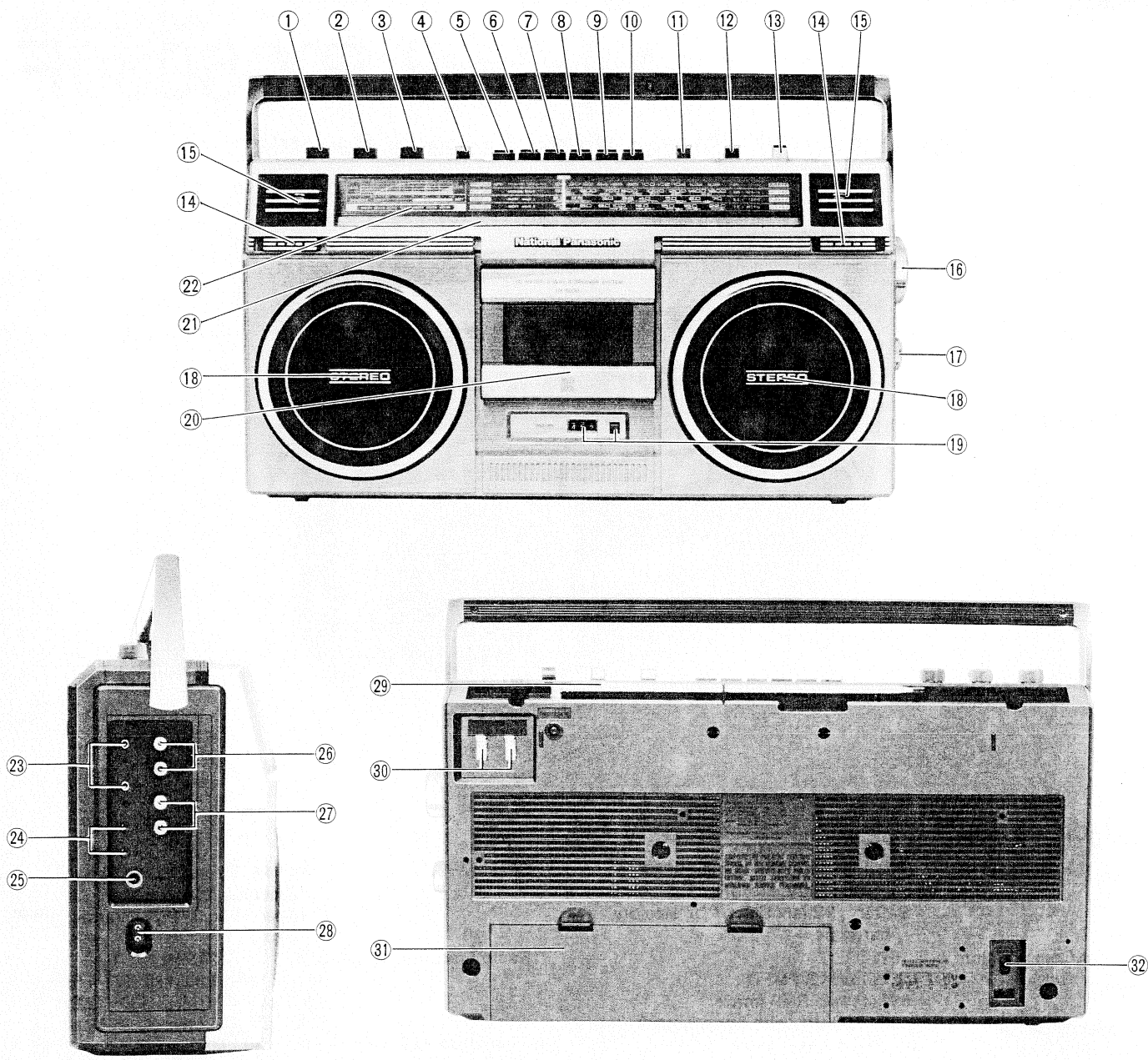
Power Requirement:	AC; 100~110/115~127/200~220/ 230~250 V, 50/60 Hz Battery; 9V (six UM-1, "D" size dry batteries)	Speaker:	Woofer; 12 cm (5") PM Dynamic speaker (3Ω) Tweeter; 3 cm (1 1/2") ceramic speaker (200Ω)
Power Consumption:	16W	Radio Frequency Range:	FM; 88~108 MHz MW; 525~1,605 kHz (571~187 m) SW ₁ ; 2.3~7.0 MHz (130~42.9 m) SW ₂ ; 7.0~22 MHz (42.9~13.6 m)
Power Output:	12W (6W×2) PMPO 8W (4W×2) RMS (max)	Intermediate Frequency:	FM; 10.7 MHz AM; (MW/SW ₁ /SW ₂); 455 kHz
Frequency Range:	50~12,000 Hz (with normal tape)	Sensitivity:	FM; 1.7 μV/50 mW output MW; 120 μV/m/50 mW output SW ₁ ; 16 μV/50 mW output SW ₂ ; 11 μV/50 mW output
Recording System:	AC bias, Magnet erase	Dimensions:	47 cm(W)×25.5 cm(H)×14.6 cm(D) [18 1/2"(W)×10"(D)×5 3/4"(D)]
Tape Speed:	4.8 cm/s, (1 7/8 ips)	Weight:	4.1 kg (9 lb. 1 oz.) without batteries
Program Time:	1 hour with C-60 cassette tape		
Track System:	4-track 2-channel stereo recording and playback		
Input:	MIC; sensitivity 0.25 mV/applicable microphone impedance 200~600Ω (recommended microphone RP-8135) LINE IN; sensitivity 250 mV/47 kΩ over LINE OUT; sensitivity 0.36 V load impedance 6.8 kΩ under EXT SP; 3~8Ω HEADPHONE; 8Ω		
Output:			

Specifications are subject to change without notice.

 **National Panasonic**

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

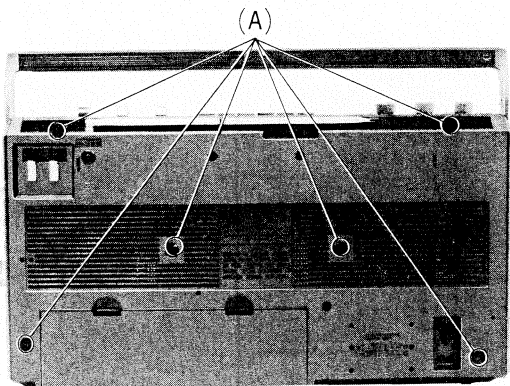
LOCATION OF CONTROLS AND COMPONENTS



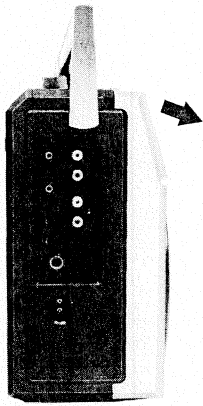
[Fig. 1]

- | | | |
|--|---|---|
| ① Tone control (TONE) | ⑫ FM mode selector/beat proof switch (STEREO, I/MONO, II) | ②④ External speaker jacks (2~8Ω) |
| ② Balance control (BALANCE) | ⑬ Band selector (FM/MW/SW ₁ /SW ₂) | ②⑤ Headphones jack (8Ω) |
| ③ Volume control (VOLUME) | ⑭ Built-in microphones (MICROPHONE) | ②⑥ Line input jacks (250mV, 47kΩ over) |
| ④ Function selector (LINE IN/RADIO/ TAPE, OFF) | ⑮ Tweeters [3cm(1½"), 200Ω] | ②⑦ Line output jacks (0.36V, 6.8kΩ under) |
| ⑤ Pause button (PAUSE) | ⑯ Tuning control (TUNING) | ②⑧ AC socket (AC IN~) |
| ⑥ Stop/eject button (■ STOP/ ▲ EJECT) | ⑰ Fine tuning control (FINE TUNING) | ②⑨ Telescopic Antenna |
| ⑦ Playback button (◀ PLAY) | ⑱ Woofers [12cm(5"), 3Ω] | ③⑩ External antenna terminals |
| ⑧ Fast forward/cue button (◀◀ FF/CUE) | ⑲ Tape counter and reset button (COUNTER) | |
| ⑨ Rewind/review button (▶▶ REW/REVIEW) | ⑳ Cassette compartment | |
| ⑩ Record button (○ RECORD) | ㉑ FM stereo indicator (FM STEREO) | |
| ⑪ Meter selector (LEVEL/BATT/OFF) | ㉒ LED meter | |
| | ㉓ Microphone jacks (0.25mV) | |
| | | SW ANT FM ANT |
| | |   |
| | | ③① Battery compartment |
| | | ③② Voltage selector |

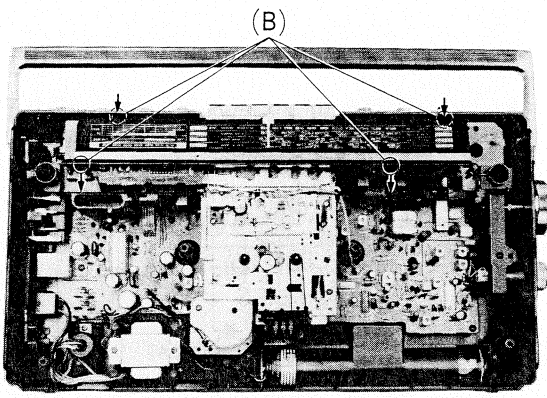
DISASSEMBLY INSTRUCTIONS



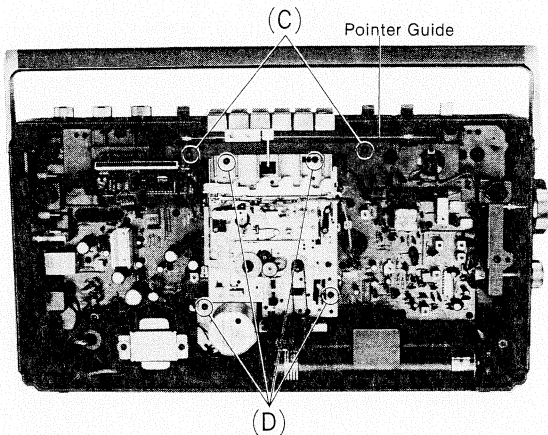
[Fig. 2]



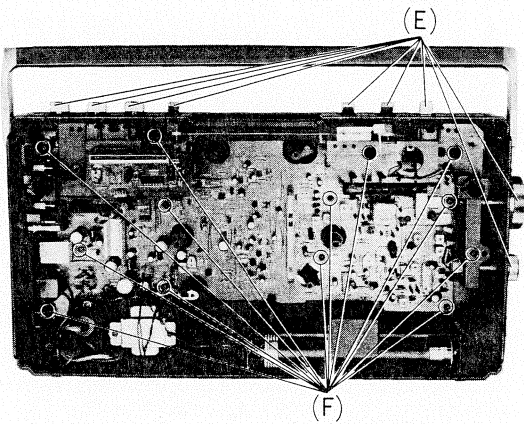
[Fig. 3]



[Fig. 4]



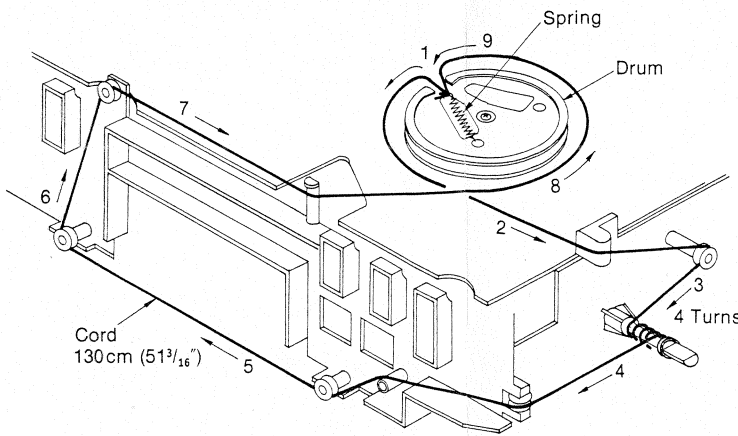
[Fig. 5]



[Fig. 6]

Procedure	To remove—	Remove—	Shown in Fig.—
1	Front cabinet	Screws (3×40)(A)×6	2
2		Push the cabinet in the direction of arrow	3
3	Dial scale	Push the catch(B)×4	4
4	Pointer guide	Red screws (3×12)(C)×2	5
5	Mechanism	Red screws (3×12)(D)×4	5
6	Circuit board	Knobs(E)×9	6
7		Red screws (3×12)(F)×13	6

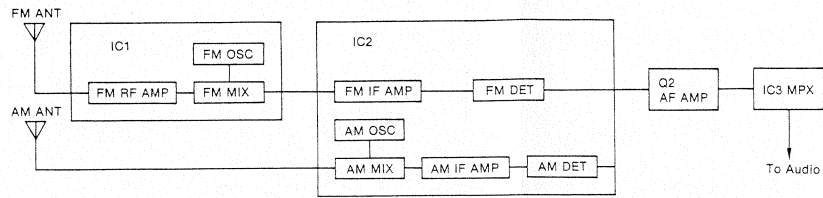
DIAL THREADING



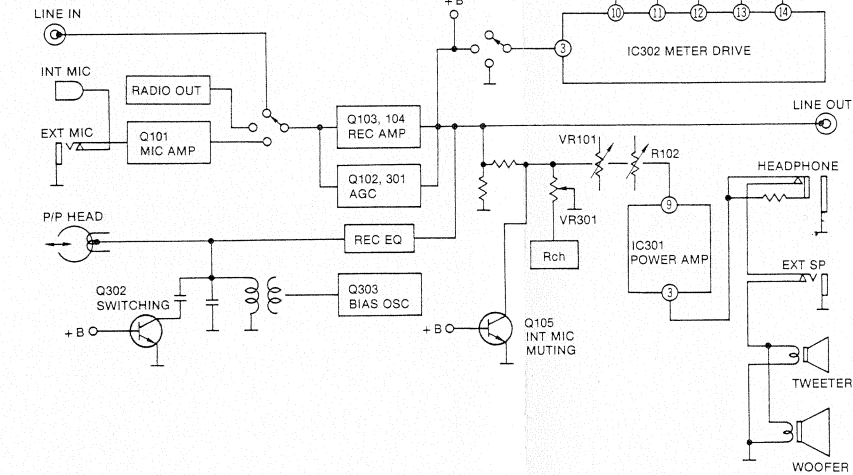
[Fig. 7]

BLOCK DIAGRAM OF ELECTRICAL CIRCUIT

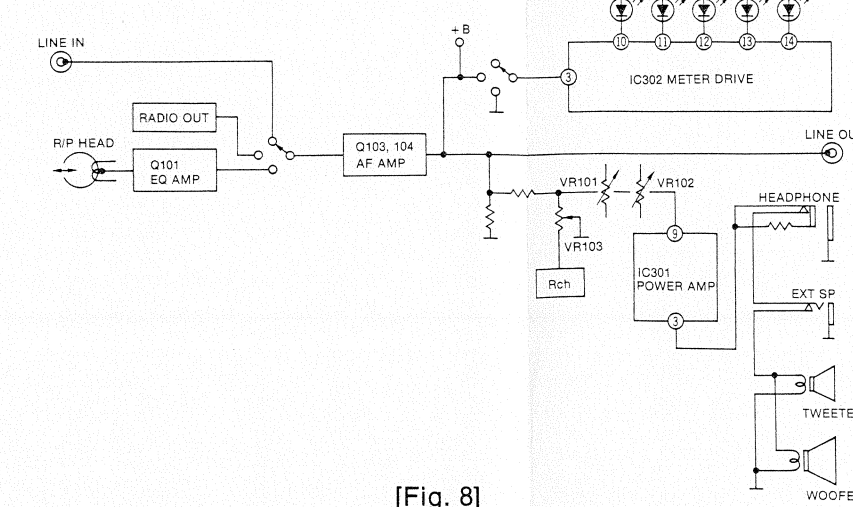
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<RECORDING CIRCUIT>

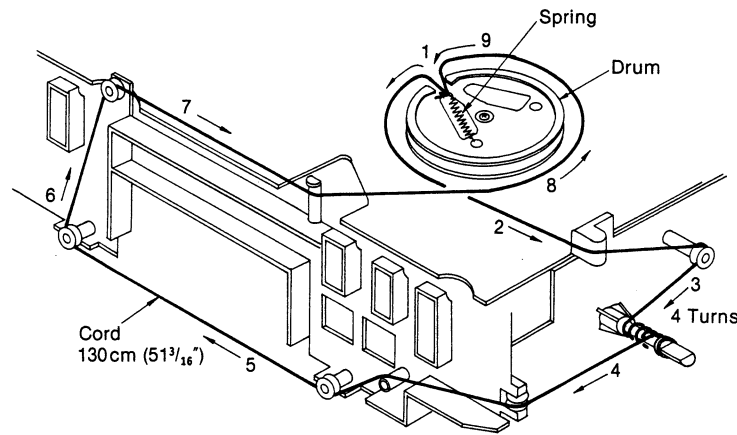


<PLAYBACK CIRCUIT>



[Fig. 8]

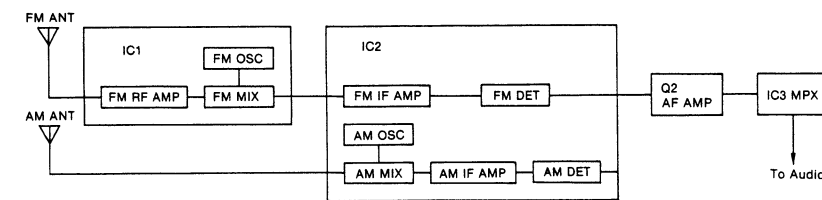
DIAL THREADING



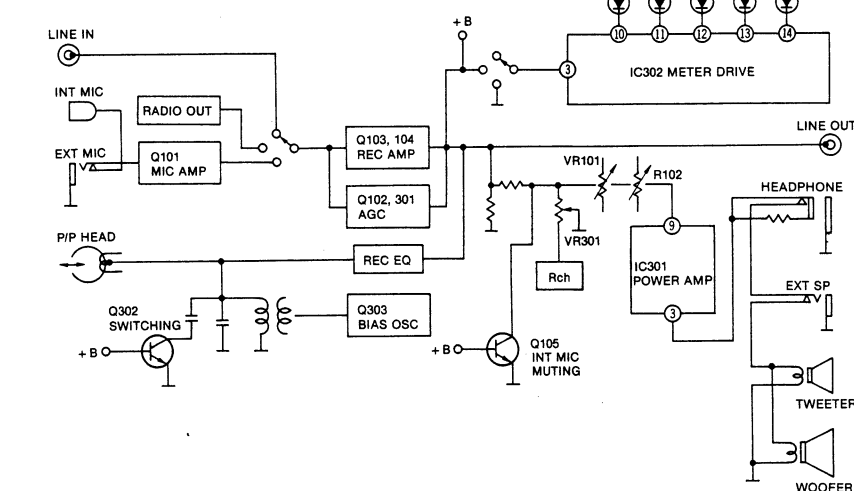
[Fig. 7]

BLOCK DIAGRAM OF ELECTRICAL CIRCUIT

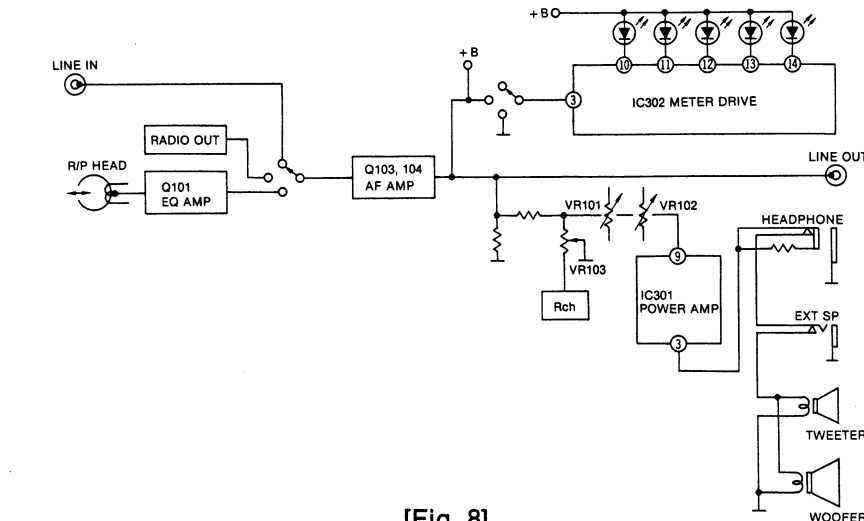
<RADIO CIRCUIT>



<RECORDING CIRCUIT>



<PLAYBACK CIRCUIT>



[Fig. 8]

ALIGNMENTS

■ ALIGNMENTS INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set tone control to center.
3. Set band switch to MW, SW₁, SW₂ or FM.
4. Set function selector to radio.
5. Set fine tuning to center.
6. Supply DC 9V through the battery terminals.
7. Output of signal generator should be no higher than necessary to obtain an output reading.

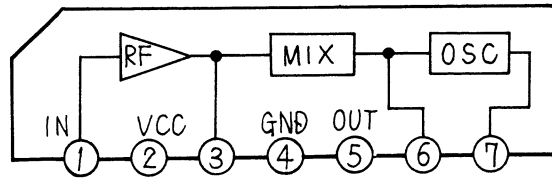
■ MW, SW₁, AND SW₂ ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM IF ALIGNMENT						
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. at 400Hz	Point of non-interference.	Output meter across voice coil.	T2 (AM 1st IFT) Adjust for maximum output.
MW-RF ALIGNMENT						
(2)	MW	"	550 kHz	550kHz [12.5mm(⁵ / ₁₆ ")]	Output meter across voice coil.	L6 (MW OSC Coil) (*1)L2 (MW ANT Coil) Adjust for maximum output. Adjust L2 by moving coil bobbin along ferrite core.
(3)	MW	"	1500kHz	1500 kHz [104.3mm(⁴ / ₈ ")]	"	CT5 (MW OSC Trimmer) CT3 (MW ANT Trimmer) Adjust for maximum output. Repeat steps (2) and (3).
(*1) Cement antenna bobbin with wax after completing alignment.						
SW ₁ -RF ALIGNMENT						
(4)	SW ₁	"	2.3MHz	2.3MHz [3.9mm(⁵ / ₃₂ ")]	Output meter across voice coil.	L7 (SW ₁ OSC Coil) (*2)L13 (SW ₁ ANT Coil) Adjust for maximum output. Adjust L13 by moving coil bobbin along ferrite core.
(5)	SW ₁	"	7 MHz	7 MHz [111.1mm(⁴ / ₈ ")]	"	CT6 (SW ₁ OSC Trimmer) CT4 (SW ₁ ANT Trimmer) Adjust for maximum output. Repeat steps (4) and (5).
(*2) Cement antenna bobbin with wax after completing alignment.						
SW ₂ -RF ALIGNMENT						
(6)	SW ₂	Connect to EXT ANT through 10PF capacitor. Negative side to earth.	7 MHz	7 MHz [3.9mm(⁵ / ₃₂ ")]	Output meter across voice coil.	L8 (SW ₂ OSC Coil) L3 (SW ₂ ANT Coil) Adjust for maximum output.
(7)	SW ₂	"	22MHz	22MHz [111.1mm(⁴ / ₈ ")]	"	CT7 (SW ₂ OSC Trimmer) Adjust for maximum output. Repeat steps (6) and (7).

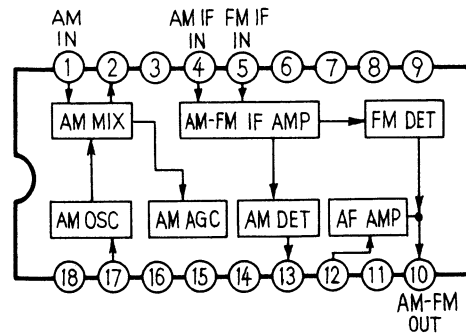
■ FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
FM-IF ALIGNMENT						
(1)	FM	Connect to test point ▼ through 0.001μF. Negative side to earth.	10.7 MHz	Point of non-interference.	Connect vert. amp of scope to test point ▼. Negative side to earth.	T1 (FM 1st) Adjust for maximum amplitude. (Refer to Fig. 10.)
(2)	FM	"	"	"	"	T3 (FM 2nd) Adjust for maximum amplitude. (Refer to Fig. 11.)
FM-RF ALIGNMENT						
(3)	FM	Connect to test point ▼ through FM dummy antenna. Negative side to earth. (Refer to Fig. 12).	90 MHz [14.4mm(⁹ / ₁₆ ")]	Output meter across voice coil.	L5 (FM OSC Coil) L4 (FM TUNE Coil)	(*3) Adjust for maximum output.
(4)	FM	"	106 MHz [96.9mm(³ / ₁₆ ")]	"	CT2 (FM OSC Trimmer) CT1 (FM TUNE Trimmer)	(*3) Adjust for maximum output. Repeat steps (3) and (4).

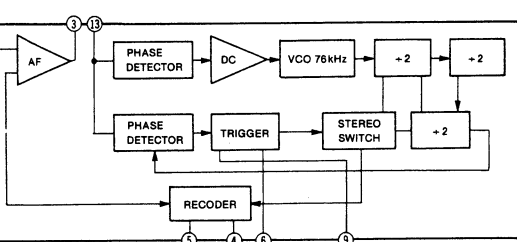
IC1



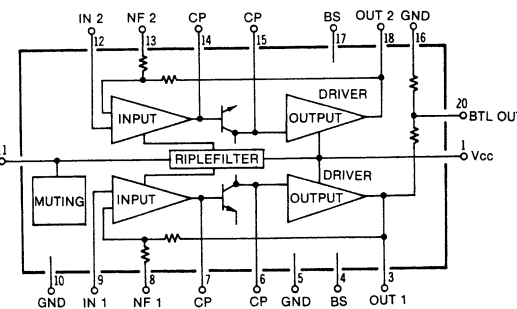
IC2



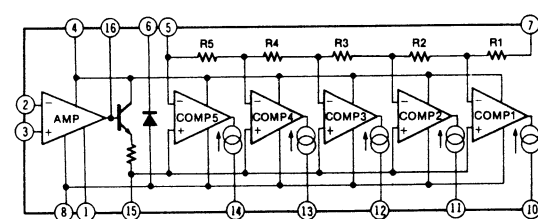
IC3



IC301



IC302



Notes:

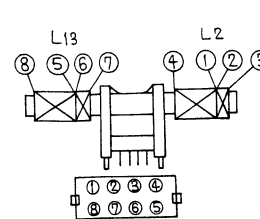
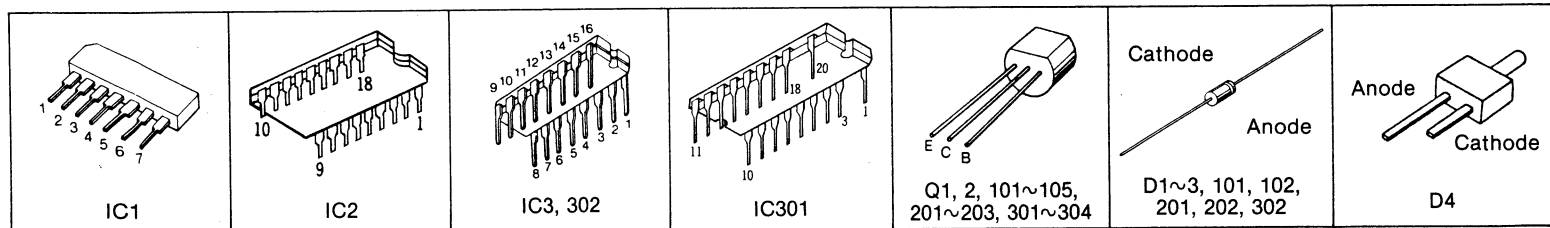
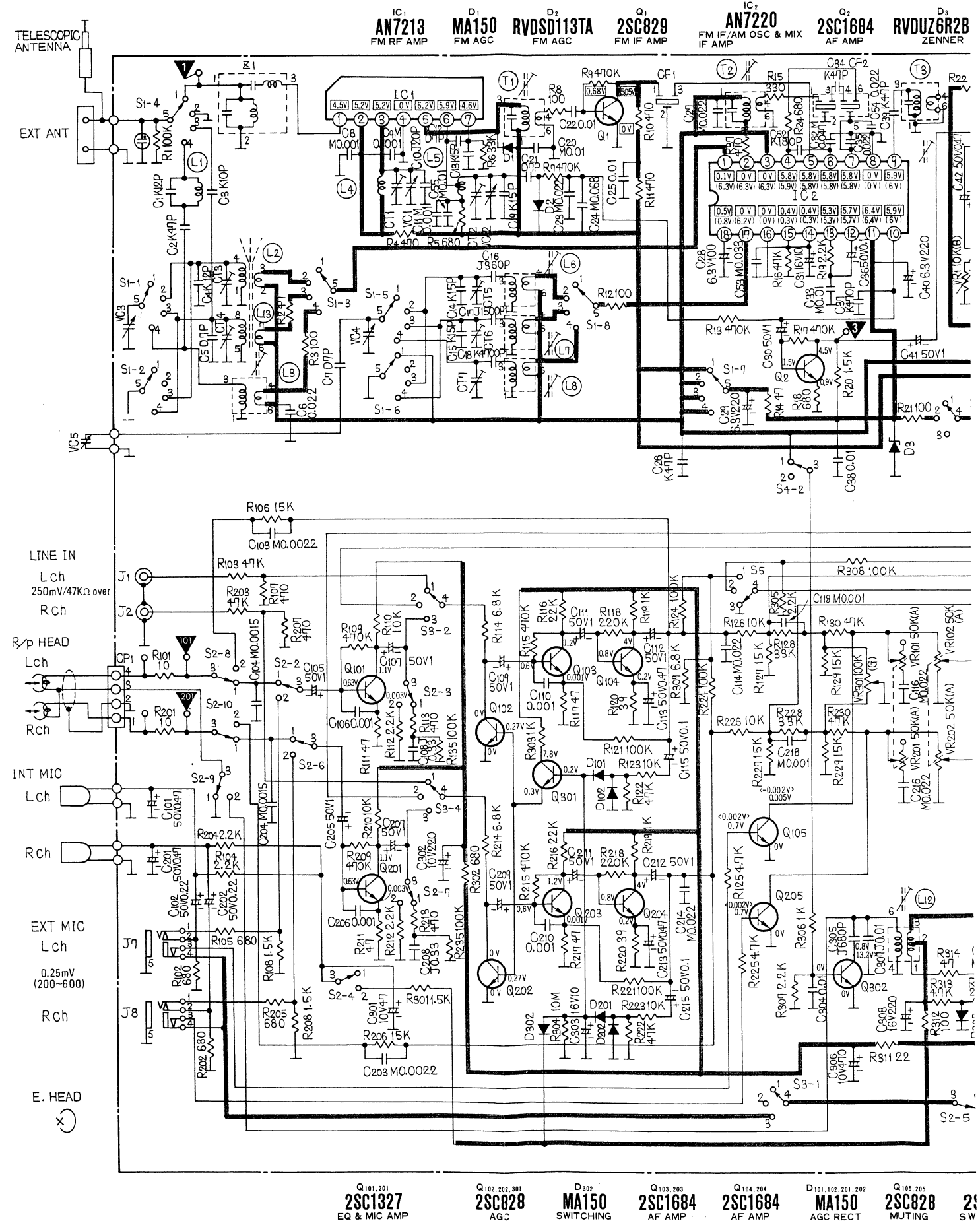
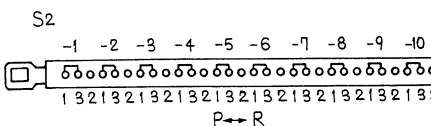
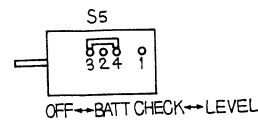
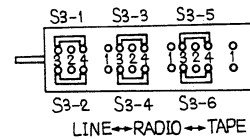
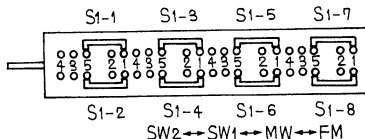
- S1-1~S1-8: Band switch in "FM" position.
(1...FM, 2...MW, 3...SW₁, 4...SW₂)
- S2-1~S2-10: Record/playback switch in "playback" position.
(1...Playback, 2...Record)
- S3-1~S3-6: Function switch in "LINE" position.
(1...LINE, 2...RADIO, 3...TAPE)
- S4-1, S4-2: FM mode/beat proof switch in "MONO/II" position.
- S5: Meter switch in "OFF" position.
(1...LEVEL, 2...BATT, 3...OFF)
- S6: Motor switch.
- S7: AC/DC select switch.
- S8: Voltage select switch.
- VR1: Separation adjustment.
VR101, 102: Tone control.
VR102, 202: Volume control.
VR301: Balance control.
VR302: Bias current adjustment.
VR303: LED meter adjustment.
- The mark (▼) shows test point. e.g. ▼ = Test point 1.
- DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
□...FM position, ()...AM position,
< >...Recording position.
- Battery current. No signal...140mA Maximum output { Radio...1A
Tape...1.06A
- Δ indicates that only parts specified by the manufacture be used for safety.

BIAS FREQUENCY: 54±1kHz

BIAS VOLTAGE: 4±0.3mV

OVERALL FREQUENCY RESPONSE

NORMAL	1kHz	0dB
	125Hz	-2±5dB
	6kHz	3±6dB

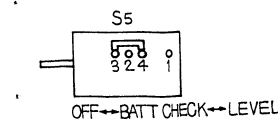
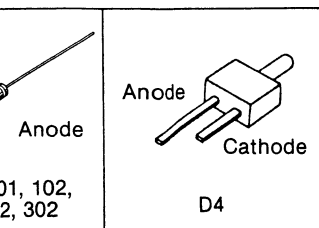
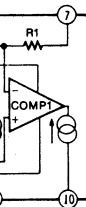
T1, 2, 3
L9, 6, 7, 8, 9, 10, 11Q101, 201
2SC1327
EQ & MIC AMPQ102, 202, 301
2SC828
AGCQ103, 203
MA150
SWITCHINGQ104, 204
2SC1684
AF AMPQ105, 205
2SC1684
AF AMPQ106, 206
MA150
AGC RECTQ107, 207
2SC828
MUTINGQ108, 208
2SC828
SW

SCHEMATIC DIAGRAM MODEL RX-5030F

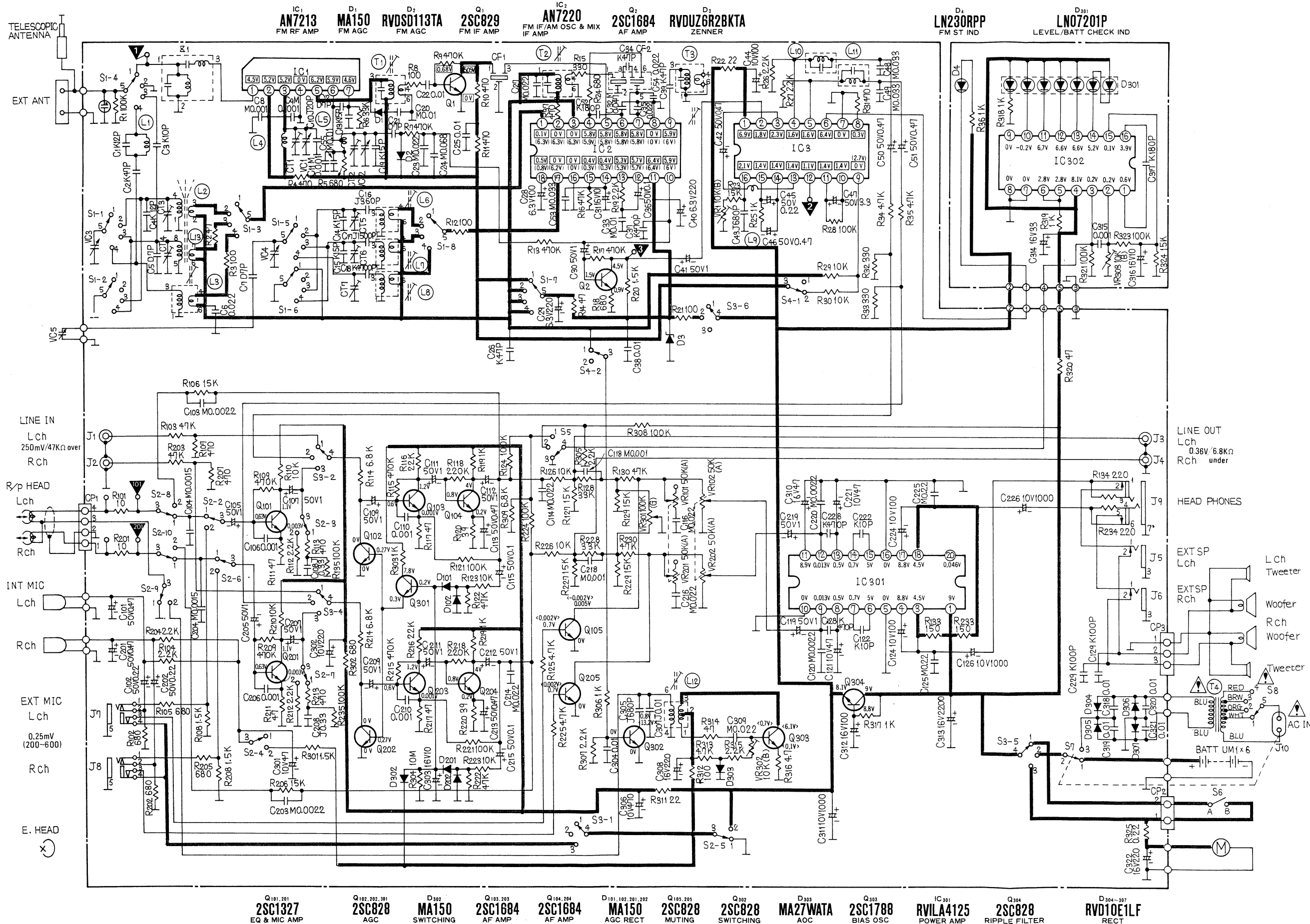
tion.
4...SW₂
"playback" position.
position.
TAPE)
ch in "MONO/II" position.
position.
OFF)

= Test point 1.
th electronics voltmeter
tion,
maximum output { Radio...1A
Tape...1.06A
the manufacture be used

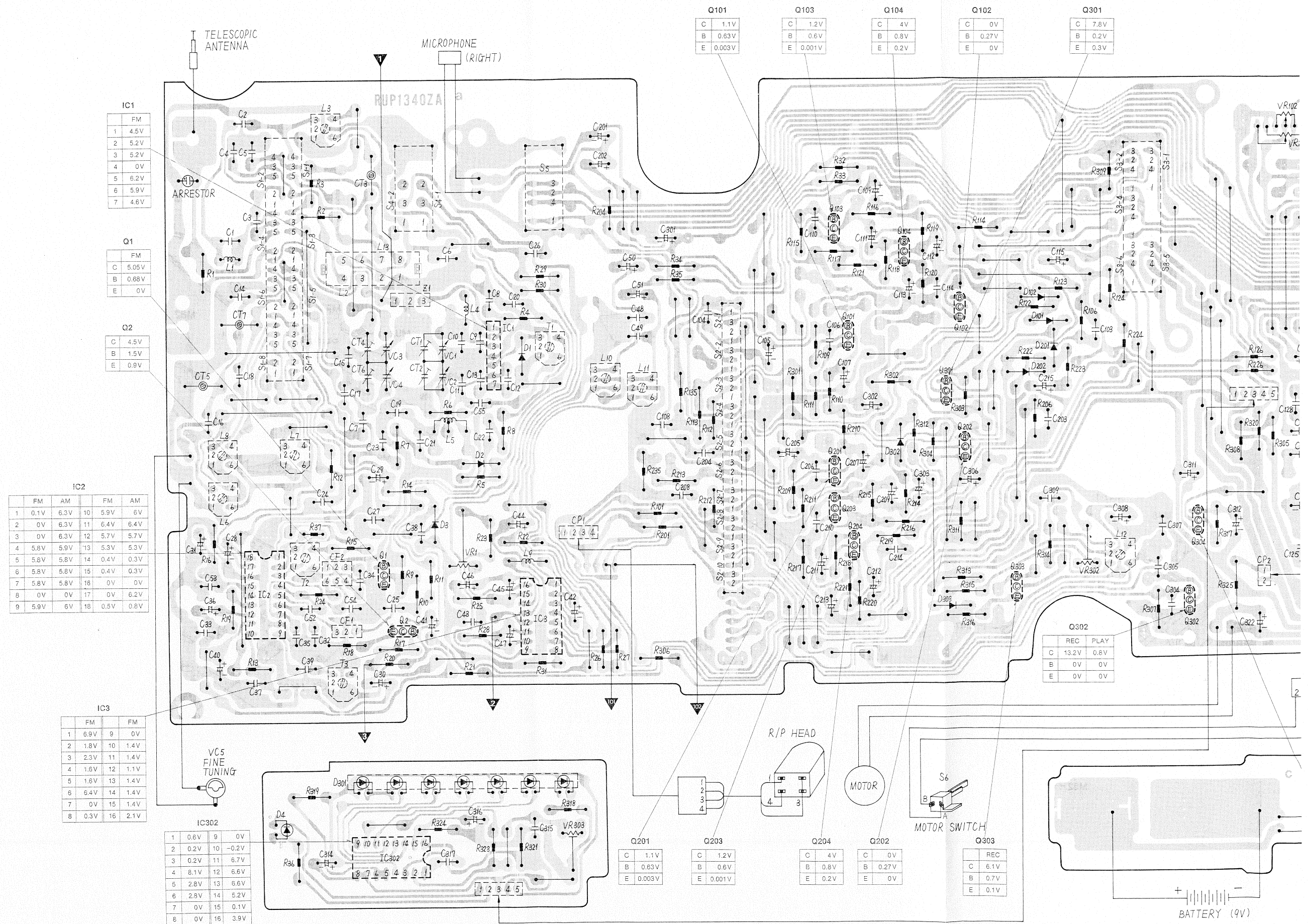
QUENCY: 54±1 kHz
TAGE: 4±0.3mV
FREQUENCY RESPONSE
1 kHz 0dB
125 Hz -2±5dB
6 kHz 3±6dB



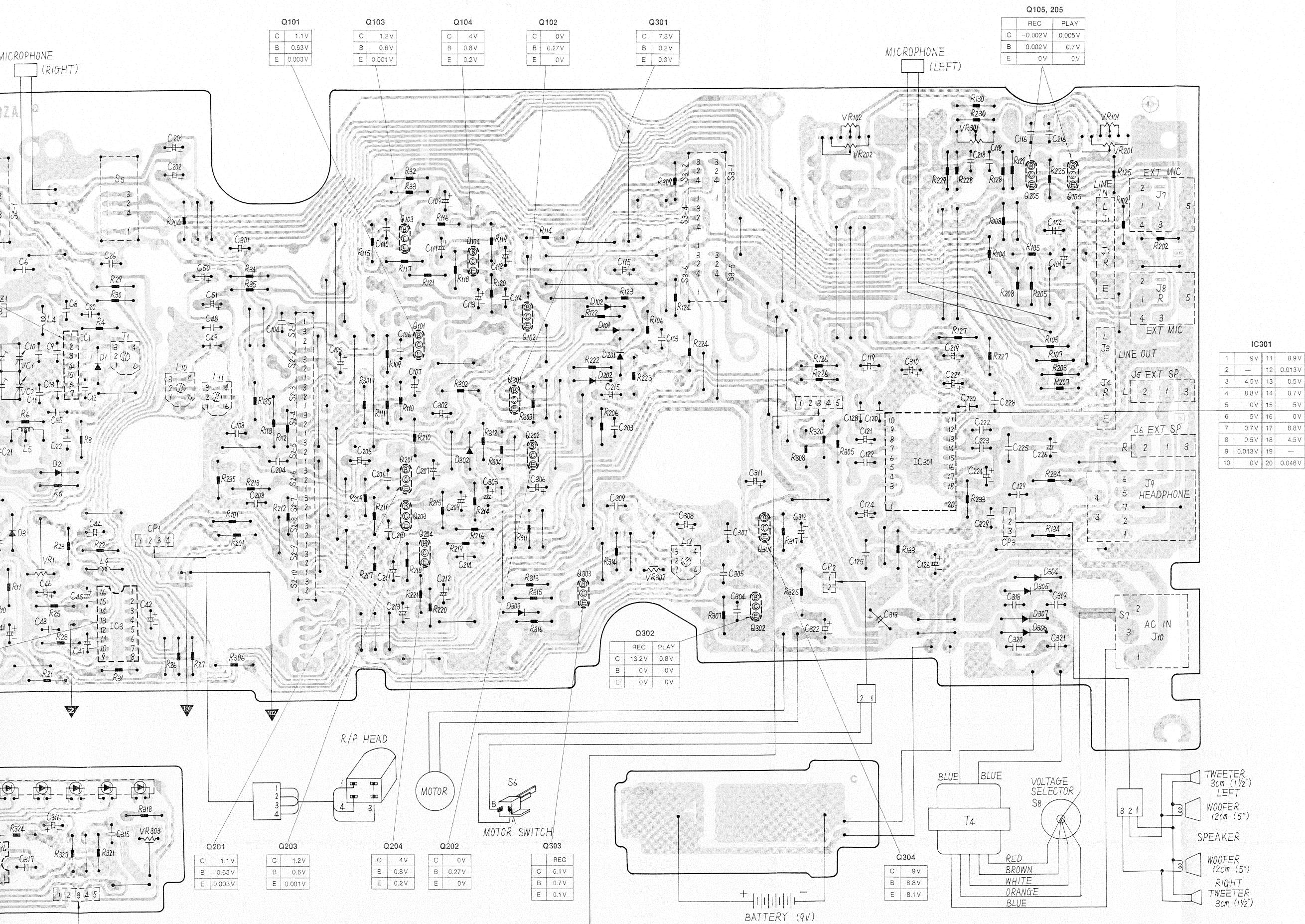
FM STEREO
BEAT PROOF



CIRCUIT BOARD WIRING VIEW MODEL RX-5030F



CIRCUIT BOARD WIRING VIEW MODEL RX-5030F



■ LED METER ALIGNMENTS

* Set function switch to tape position.

ITEM	ADJUSTMENT	REMARKS
Battery check	VR303	1. Supply DC 6.5V through the battery terminals. 2. Set meter switch to battery position. 3. Adjust VR303 so that the 3rd LED from right begins to illuminate.

■ SEPARATION ALIGNMENT

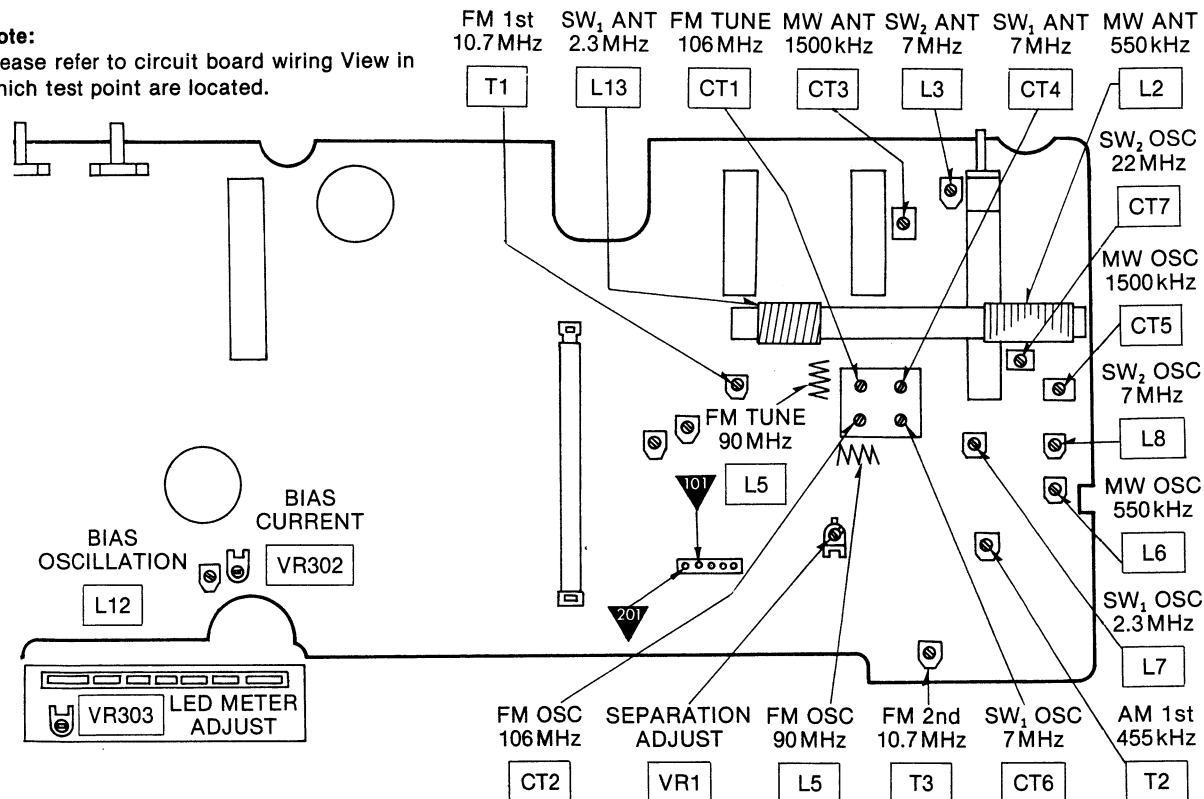
ITEM	SIGNAL 90 MHz, 60dB SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	—	... (+) side earth... (-) side	VR1	19kHz	Adjust VR1 for 19kHz (± 200 Hz) reading on electronic counter.

■ AUDIO ADJUSTMENT

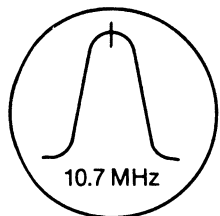
ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Bias oscillation frequency	—	10 μ earth	54 $\pm$ 1kHz (S4 $\rightarrow$ I)	L12	Record mode
Bias current	—	(Lch) 10 μ (Rch) 20 μ Earth	4 $\pm$ 0.2mV	VR302	Record mode

■ ADJUSTMENT PARTS LOCATION

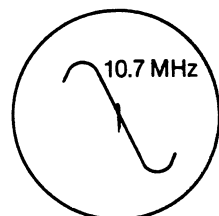
Note:
Please refer to circuit board wiring View in
which test point are located.



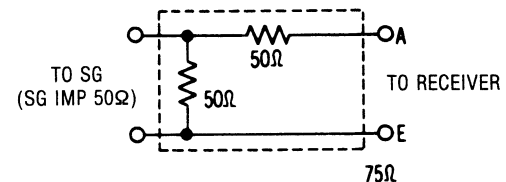
[Fig. 9]



[Fig. 10]



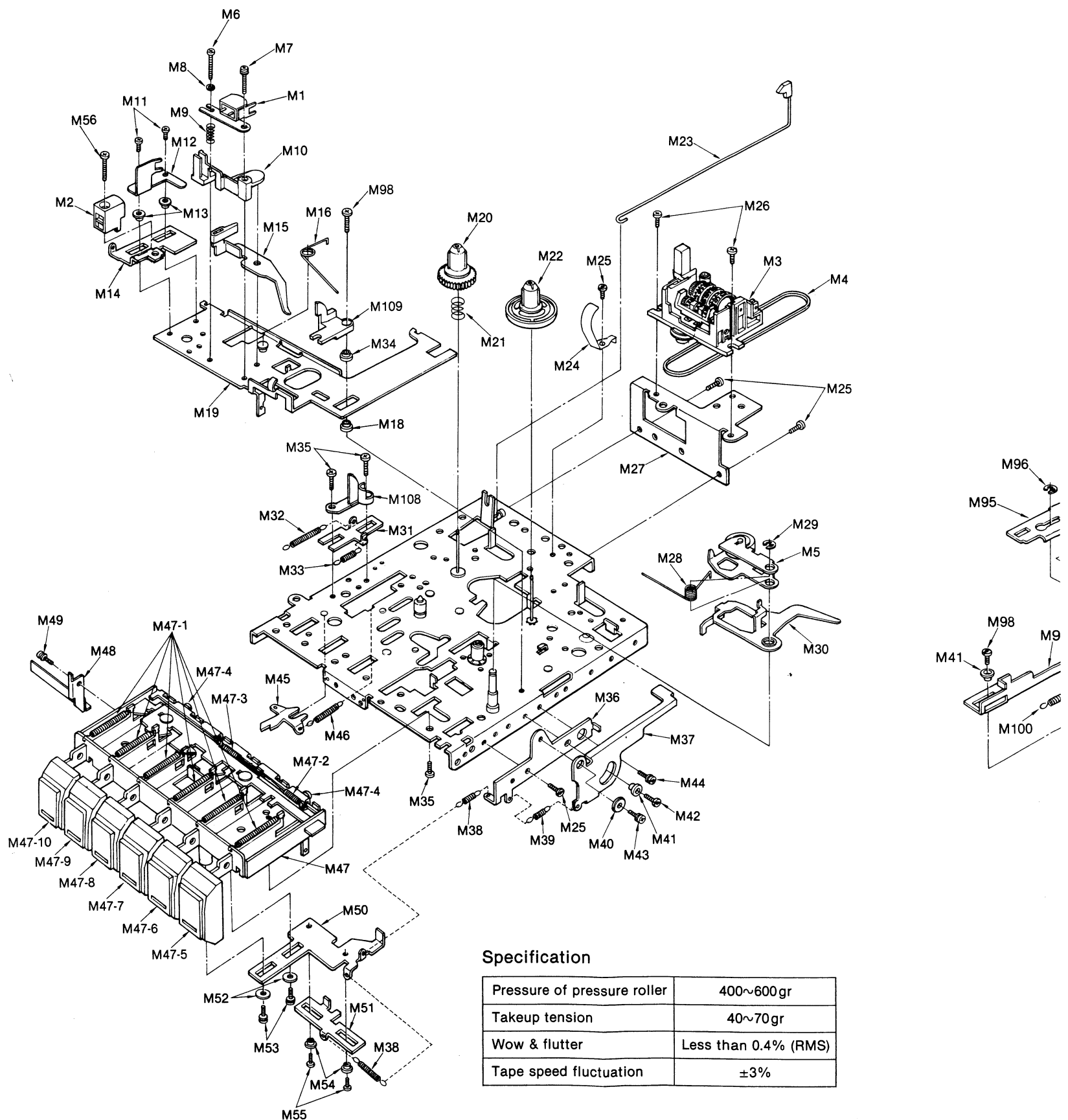
[Fig. 11]



[Fig. 12] FM Dummy Antenna

8

EXPLODED VIEWS



Specification

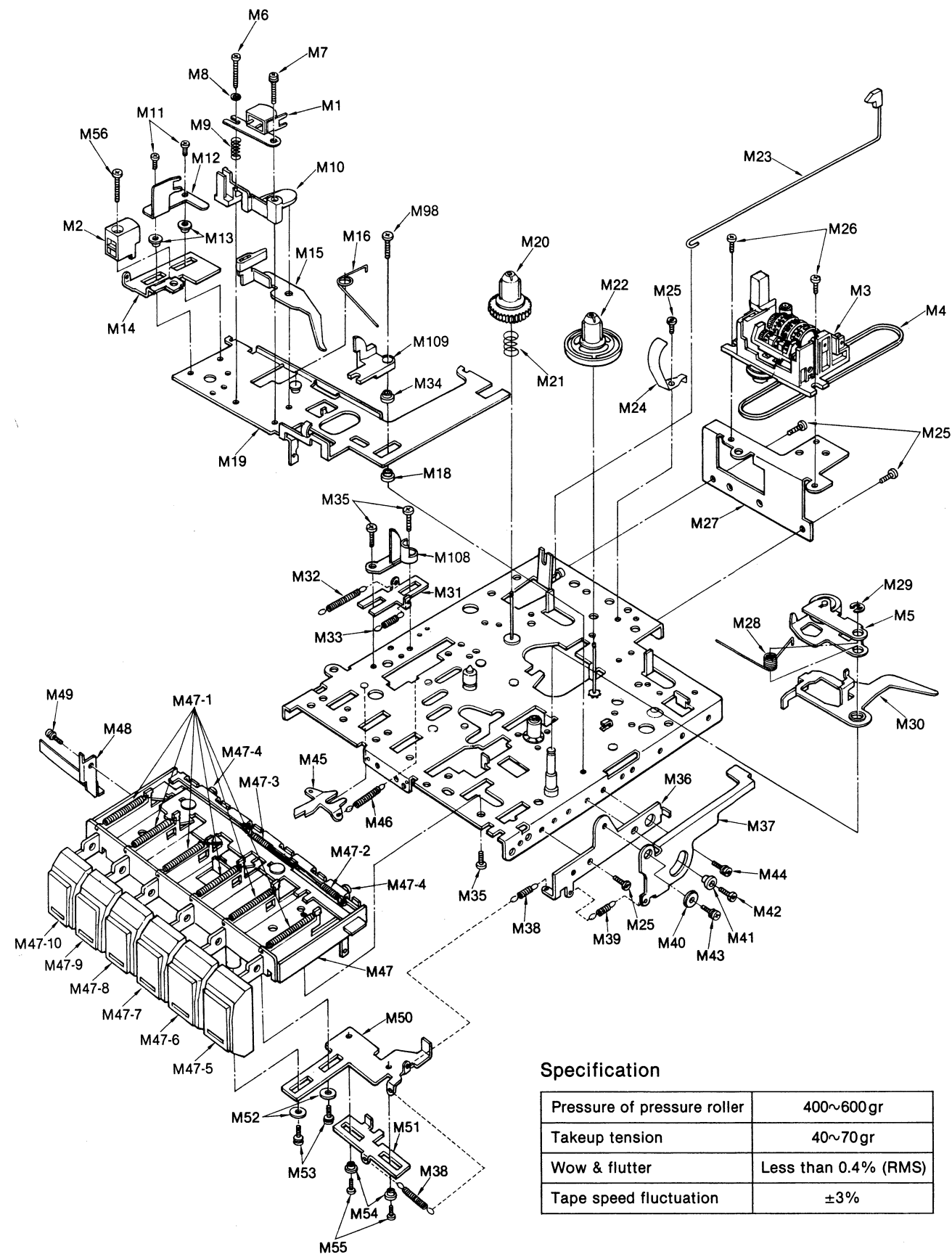
Pressure of pressure roller	400~600gr
Takeup tension	40~70gr
Wow & flutter	Less than 0.4% (RMS)
Tape speed fluctuation	$\pm 3\%$

[Fig. 13]

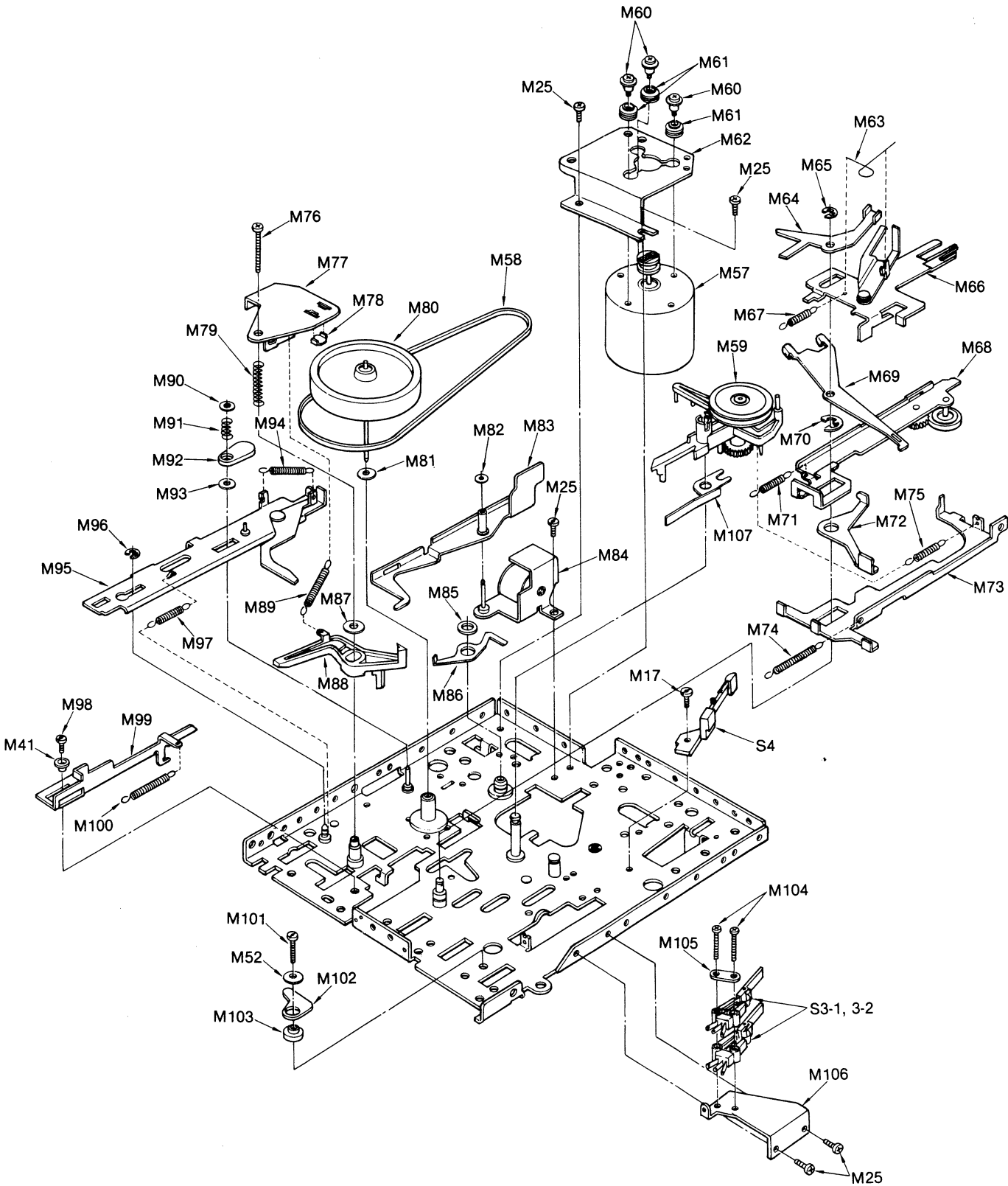
9

10

EXPLODED VIEWS

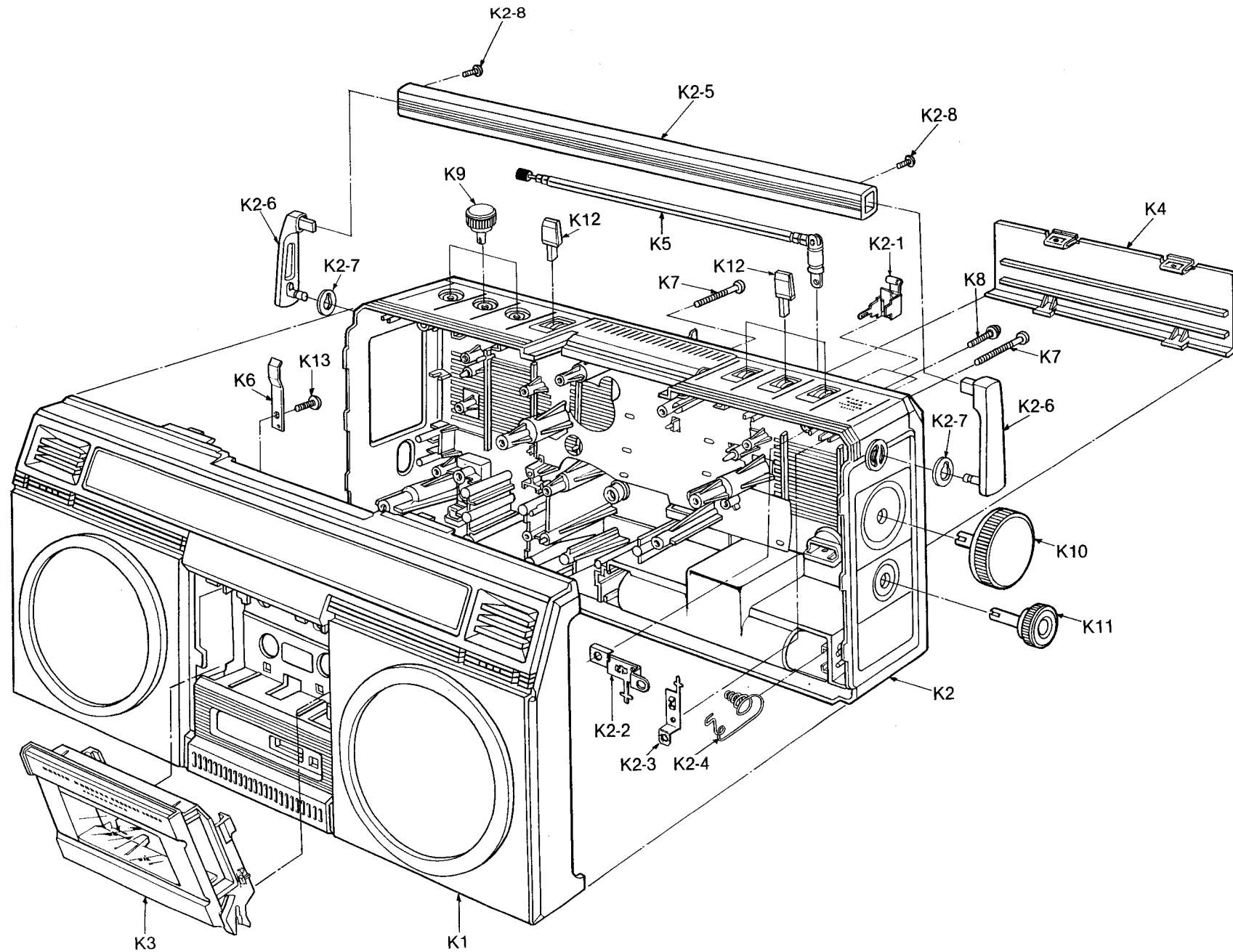


[Fig. 13]



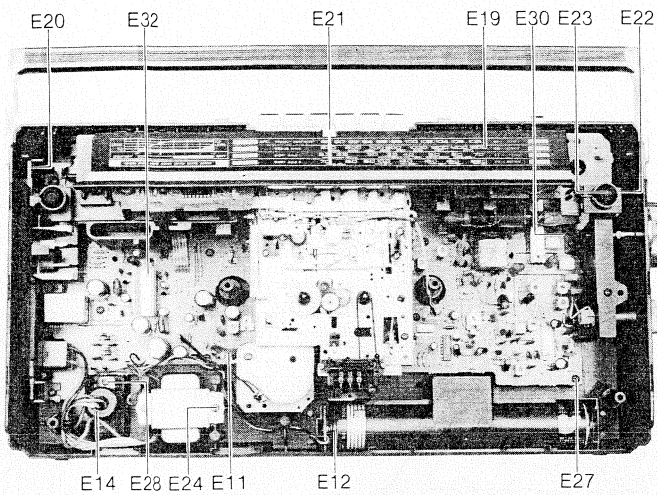
[Fig. 14]

CABINET PARTS

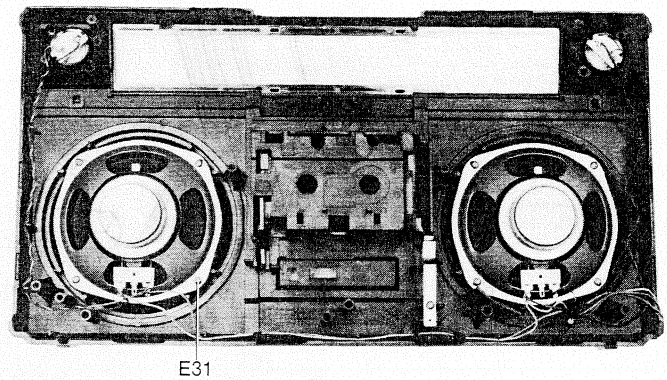


[Fig. 15]

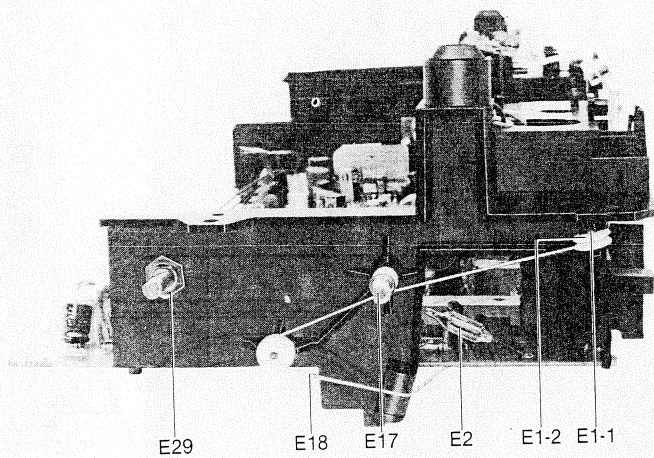
ELECTRICAL PARTS



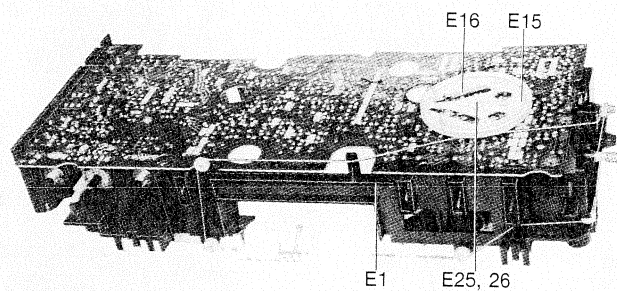
[Fig. 16]



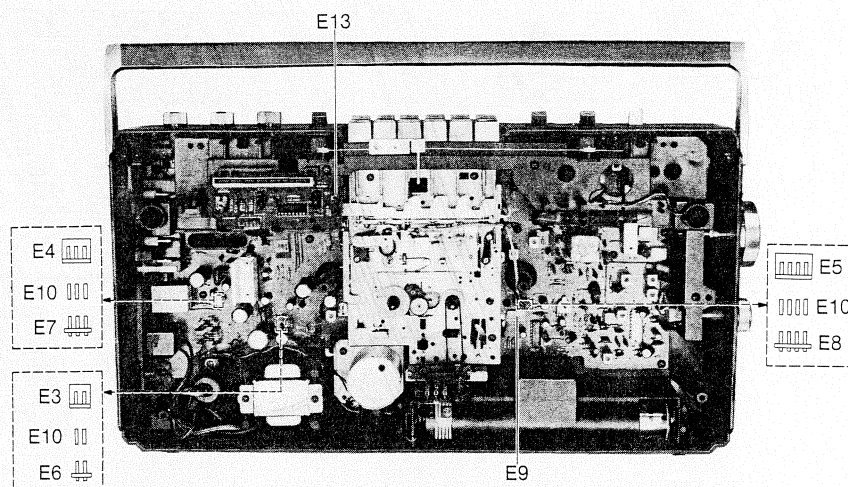
[Fig. 17]



[Fig. 18]



[Fig. 19]



[Fig. 20]

■ REPLACEMENT PARTS LIST Model RX-5030F (RD8007-5116C)

NOTES: 1. Δ indicates that only parts specified by the manufacturer be used for safety.
2. The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		MECHANICAL PARTS		
M1	RJH2E4Z	R/P Head	1	
M2	QWY2129	Erase Head	1	
M3	RSE74Z	Counter	1	
M4	RFB9Z	Counter Belt	1	
M5	RFR3Y	Pinch Roller	1	
M6	XSN2+12	Screw	1	S
M7	XTW2+11	"	1	
M8	XWE2	Washer	1	S
M9	RFS70Z	Spring, Head	1	
M10	RFD74Z	Spacer, Head	1	
M11	XSN2+4	Screw	2	S
M12	RFD75Z	Tape Guide	1	
M13	RFX13Z	Spacer, Erase Head Base	2	
M14	RFD76Z	Erase Head Base	1	
M15	RFD77Y	Auto Stop Detector Lever Ass'y	1	
M16	RFS71Y	Spring, Head Base Plate	1	
M17	XTN26+6B	Screw	1	S
M18	SMQ1648	Spacer, Head Base Plate	1	
M19	RFD78Y	Head Base Plate Ass'y	1	
M20	RFJ8Z	Supply Reel Table	1	
M21	RFS72Z	Back Tension Spring	1	
M22	RFJ9Z	Take Up Reel Table	1	
M23	RFY26Z	Safety Lever Ass'y	1	
M24	RFS73Z	Cassette Pressure	1	
M25	XTN26+4B	Screw	9	S
M26	XSB26+5	Screw	2	S
M27	RFD80Z	Table, Counter	1	
M28	RFS74Z	Spring, Pinch Roller	1	
M29	XUC25FT	Circlip	1	S
M30	RFY27Z	Arm Lever	1	
M31	RFY28Z	R/P Lever	1	
M32	RFS75Z	R/P Lever Spring	1	
M33	RFS76Z	Erase Head Base Spring	1	
M34	RFX21Z	Spacer, Cassette Guide	1	
M35	XTN26+6B	Screw	3	S
M36	RFD79Z	Eject Bracket	1	
M37	RFY29Z	Eject Kick Lever	1	
M38	RFS77Z	Eject Lever Spring	2	
M39	RFS78Z	Eject Kick Lever Spring	1	
M40	RFX15Z	Spacer, Kick Lever	1	
M41	RFX3Z	Spacer, Kick Lever	2	
M42	XTN26+6B	Screw	1	S
M43	XTN26+A6F	Screw	1	
M44	XYC26+AF5	Screw	1	
M45	RFY30Z	R/P Safety Lever	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M46	RFS79Z	Safety Lever Spring	1	
M47	RZQX5030FX	Button Frame Ass'y	1	
M47-1	RFS80Z	Button Frame Lever Spring	6	
M47-2	RFS81Z	Button Operation Spring	1	
M47-3	RFS82Z	FF/Rewind Operation Spring	1	
M47-4	XYN26+A4F	Screw	2	
M47-5	RBC281Z	Pause Button	1	
M47-6	RBC282Z	Stop/Eject Button	1	
M47-7	RBC283Z	Play Button	1	
M47-8	RBC284Z	FF/CUE Button	1	
M47-9	RBC285Z	REW/Review Button	1	
M47-10	RBC286Z	Record Button	1	
M48	RFS69Z	Plate, Recording Spring	1	
M49	XYN26+A4F	Screw	1	
M50	RFY31Z	Eject Lever	1	
M51	RFY32Z	Eject Detector Lever	1	
M52	XWG26X8	Washer	3	
M53	XYC26+AF6	Screw	2	
M54	RFX16Z	Spacer, Eject Detector Lever	2	
M55	XSN26+5	Screw	2	S
M56	XSN26+12	Screw	1	S
M57	RFM1Z	Motor	1	
M58	RFB10Z	Belt, Motor	1	
M59	RFG4Z	FF/Rewind Crutch Ass'y	1	
M60	RFE22Z	Screw	3	
M61	RFI7Z	Cushion, Motor	3	
M62	RFD81Z	Table, Motor	1	
M63	RFS84Z	Switch Kick Lever Spring	1	
M64	RFY33Z	Switch Lever	1	
M65	XUC23FT	Circlip	1	S
M66	RFY34Z	RC Slide Lever	1	
M67	RFS85Z	RC Slide Lever Spring	1	
M68	RFY35Z	FF Idler Arm Ass'y	1	
M69	RFY36Z	RC Lever	1	
M70	XUC4FT	Circlip	1	S
M71	RFS86Z	FF Idler Arm Spring	1	
M72	SMQ1928	Rewind Arm	1	
M73	SMQ2428	Main Plate	1	
M74	RFS87Z	Main Plate Spring	1	
M75	RFS88Z	FF/Rewind Crutch Spring	1	
M76	XSN26+20	Screw	1	S
M77	RFD82Z	Flywheel Retainer	1	
M78	RFD83Z	Flywheel Bracket	1	
M79	SMQ1948	Spring Flywheel Retainer	1	
M80	RFY7Z	Flywheel	1	
M81	RFN22Z	Washer	1	
M82	RFN23Z	Washer	1	
M83	RFY37Z	Kick Lever	1	
M84	RFPLZ	Solenoid Ass'y	1	
M85	RFN24Z	Washer	1	
M86	RFY38Z	Pause Kick Lever	1	
M87	XWG3	Washer	1	S
M88	RFY39Z	Auto Lever	1	
M89	RFS89Z	Auto Lever Spring	1	
M90	RFN25Z	Washer	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M91	RFS90Z	Pause Lever Spring	1		T4	RLT5K139	Power Transformer	1	△
M92	RFY40Z	Pause Lever	1				VARIABLE RESISTORS		
M93	RFX17Z	Spacer, Pause Lever	1		VR1	EVLS3AA00B14	Variable Resistor, 10kΩ (B)	1	
M94	RFS91Z	Pause Operation Spring	1		VR101, 201	EWCS0AF15A54	" 50kΩ (A)	1	
M95	RFY41Z	Pause Slide Lever	1		VR102, 202	EWCS1AF15A54	" 50kΩ (A)	1	
M96	XUC2FT	Circlip	1	S	VR301	EWHP0AF15G15	" 100kΩ (G)	1	
M97	RFS92Z	Pause Slide Lever Spring	1		VR302, 303	EVNK4AA00B14	" 10kΩ (B)	2	S
M98	XTN26+8B	Screw	2	S			VARIABLE CAPACITORS		
M99	RFY42Z	Play Slide Lever	1		VC1~4	RCV4RC2VK	Tuning Capacitor w/Trimmer Capacitor (CT1,2,4,6)	1	
M100	RFS93Z	Play Slide Lever Spring	1		VC5	RCVFT7-20PE3	Fine Tuning	1	
M101	XTN26+10B	Screw	1	S	CT3,5	RCV1PX10AGS	Trimmer Capacitor	2	
M102	RFD84Z	Stopper	1		CT7	RCV1PX15AGS	"	1	
M103	RFX18Z	Spacer, Stopper	1				CERAMIC FILTERS		
M104	XSN2+14	Screw	2	S	CF1	RVF107MFZW	Ceramic Filter	1	
M105	RFX19Z	Spacer, Switch	1		CF2	QCRZZ455A7W	"	1	
M106	RFD85Z	Table, Switch	1				COMPONENT COMBINATION		
M107	RFS94Z	Spring Plate	1		Z1	RXABPWB5W	Component Combination	1	
M108	RFY45Z	Cassette Guide	1				SPEAKERS		
M109	RFY46Z	Cassette Guide	1			QAS12P126SC	Speaker, 12cm (5"), Woofer, 3Ω	2	
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES				EAS3FP03A	" 3cm (1-1/2"), Tweeter, 200Ω	2	
IC1	AN7213	IC	1				SWITCHES		
IC2	AN7220A	IC	1		S1	RST4H01Z	Switch, Band	1	
IC3	RVIBA1330	IC	1		S2	RSH2J01Y	" Recording/Playback	1	
IC301	RVILA4125	IC	1		S3	RST3F10Z	" Function	1	
IC302	LB1405	IC	1		S4	RST2B23Z	" Mode	1	
Q1	2SC829	Transistor (Si)	1		S5	RST3A04Z	" Meter	1	
Q2,103,104,203,204	2SC1684	Transistor (Si)	5		S6	RFA11Z	" Playback		
Q101,201	2SC1845	Transistor (Si)	2		S8	RSR4A01W	" Voltage Selector	1	△
Q102,105,202,205,301,302,304	2SC828	Transistor (Si)	7				JACKS		
Q303	2SC1788	Transistor (Si)	1		J1~4	RJF1074Z	Jack, Line	1	
D1,101,102,201,202,302	MA161	Diode (Si)	6	S	J5,6	RJJ32E	" EXT SP	2	S
D2	RVDS113	Diode (Si)	1	S	J7,8	RJJ1D2Z	" EXT Mic	2	
D3	RVDUZ6R2BKTA	Diode (Si)	1		J9	RJJ1E2Z	" Headphone	1	
D4	LN230RPP	LED (Ga)	1		J10	RJJ112Y	" AC IN	1	△
D301	LN07201P	LED (Ga)	1				RESISTORS (Value is in OHMS)		
D303	MA27WATA	Diode (Si)	1		R316	ERD25TJ4R7	4.7 1/4W Carbon	1	S
D304~307	SM112	Diode (Si)	4	S	R101,201	ERD25TJ100	10 " "	2	S
		COILS AND TRANSFORMERS			R22,311	ERD25TJ220	22 " "	2	S
L2,13	RLF5W153	Antenna Coil, MW, SW1	1		R120,220	ERD25TJ390	39 " "	2	S
L3	RLA3M62	Antenna Coil, SW2	1		R2,14,111,217,320,314	ERD25TJ470	47 " "	8	S
L4	RLD4Y44AW	Tuning Coil, FM	1						
L5	RLO4Y43AW	Oscillator Coil, FM	1						
L6	RLO2M4	Oscillator Coil, MW	1						
L7	RLO3M18	Oscillator Coil, SW1	1						
L8	RLO3M75	Oscillator Coil, SW2	1						
L10,11	QLM1M2	Trap Coil, 19kHz	2						
L12	QLB0178	Oscillator Coil, Bias	1						
T1,3	RLI4M101	IFT, FM	2						
T2	QLI2M102	IFT, AM	1						

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R3,8,12,21,312	ERD25TJ101	100 1/4W Carbon	5	S	C13,14,15,19	ECCD1H150KC	15 P 50V Ceramic	4	
R133,233	ERD25TJ151	150 " "	2	S	C10	ECCD1H200JC	20 P " "	1	
R134,234	ERD25TJ221	220 " "	2	S	C2,26,34,39	ECCD1H470KC	47 P " "	4	
R15,32,33	ERD25TJ331	330 " "	3	S	C129,229	ECCD1H101KC	100 P " "	2	
R4,10,11,207,113	31,37,107,213	470 " "	9	S	C52,317	ECCD1H181KC	180 P " "	2	
R5,18,24,202,205	102,105,302	680 " "	8	S	C37,128,228	ECKD1H471KB	470 P " "	3	
R25,36,119,219,303,306,317	ERD25TJ681	680 " "	8	S	C106,110	206,210,315	0.001 " "	5	
R20,108,208,301	ERD25TJ102	1 k " "	9	S	C8,9,11,118,218	ECKD1H102ZF	0.001 " "	5	
R19,26,27,104,112,204,212,305	ERD25TJ152	1.5 k " "	4	S	C103,120	ECKD1H102MD	0.001 " "	4	
R34,35,125,225,313	ERD25TJ222	2.2 k " "	10	S	C22,25,38	203,220	0.0022 " "	8	
R114,214,309	ERD25TJ472	4.7 k " "	5	S	C20,33,55	ECKD1H222MD	0.01 " "	3	
R29,30,110,123,126,210,223,226	ERD25TJ682	6.8 k " "	3	S	C6,35,54	ECKD1H103MD	0.01 " "	3	
R23,106,127,129,206,227,229,324	ERD25TJ103	10 k " "	8	S	C104,204	ECKD1H223ZF	0.022 " "	2	
R116,216	ERD25TJ153	15 k " "	8	S	C16	ECKD1H152MD	0.0015 " "	1	
R6,128,228	ERD25TJ223	22 k " "	2	S	C43,305	ECQS05361JW	360 P Styrol	2	
R16,103,122,130,203,222,230	ERD25TJ333	33 k " "	3	S	C17	ECQS05681JW	680 P " "	1	
R1,28,121,124,135,221,224,235	ERD25TJ473	47 k " "	7	S	C18	ECQSLH152JZ	1500 P " "	1	
R118,218	ERD25TJ104	100 k " "	11	S	C125,225	ECQS1H472KZ	4700 " "	2	
R7,9,13,17	ERD25TJ224	220 k " "	2	S	C108,208	ECQG05224MZ	0.22 " Polyester	2	
R109,115	ERD25TJ474	470 k " "	4	S	C307	ECQV05334JZ	0.33 " "	1	
R304	ERC14GK106	10 M Solid	1	S	C23,27,32,114,116,214,216,309	ECQV05103JZ	0.01 " "	8	
R325	ERD12ANJR22	0.22 1/2W Metal	1	S	C48,49,53	ECFVD223MD	0.022 25V Semi-Conductor	3	
CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)					C24	ECFVD333MD	0.033 " "	1	
C5	ECCD1H030C	3 P 50V Ceramic	1		C28,44,124,224,312	ECFVD683MD	0.068 " "	5	S
C7,12,21	ECCD1H070DC	7 P " "	3		C29,40,302,308,322	ECEALAS101	100 10V Electrolytic	5	S
C3,122,222	ECCD1H100KC	10 P " "	3		C121,221,301,310	ECEALAS221	220 " "	4	S
C1,4	ECCD1H120KC	12 P " "	2		C306	ECEALAS470	47 " "	1	S
					C126,226,311	ECEALAS471	470 " "	3	S
					C31,303,316	ECEALAS102	1000 " "	3	S
					C313	ECEALHS100	10 50V " "	1	S
					C45	ECEALCS222	2200 16V " "	1	S
					C42,46,50,51,101,113,201,213	ECEA50ZR22	0.22 50V " "	1	S
					C30,41,105,107,109,111,112,119,205,207,209,211,212,219	ECEA50ZR47	0.47 " "	8	S
						ECEA50Z1	1 " "	14	S
						ECEA50Z3R3	3.3 " "	1	S
					C314	ECEALCS330	33 16V " "	1	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		CABINET PARTS			E29	XNS8D	Nut, Fine Tuning M'tg	1	
K1	RYMX5030FX91	Front Cabinet Assembly	1		E30	XUC2FT	Circlip, Tuning Shaft	1	S
K2	RYFX5030FX	Rear Cabinet Assembly	1		E31	XTV3+10G	Screw, Speaker M'tg	10	
K2-1	RJF1065Z	Terminal, EXT Antenna	2		E32	XTW3+10F	" Heat Sink M'tg	2	
K2-2	RJT713Z	Terminal, Telescopic Antenna	1				ACCESSORIES		
K2-3	RJT714Z	Terminal, EXT Antenna	1			RJN18Z	Cassette Tape	1	
K2-4	RJC931Z	Terminal, Battery +, - Side	1			RJA21Z	Power Cord, AC	1	S
K2-5	RKX205Z	Handle	1			RJP120Z	Plug, Power Cord	1	
K2-6	RKX192Z	Arm, Handle	2			RQE13Z	Caution Tag	1	
K2-7	RKX165Z	Spacer, Arm	2				PACKING MATERIALS		
K2-8	XTC3+10CFZ	Screw, Handle M'tg	2			XZB60X50A01	Polyethylene Cover	1	
K3	RYQX5030FX	Cassette Cover Assembly	1			RPN9350Z	Pad Complete	1	
K4	RYNX5030FX	Battery Cover Assembly	1			RPK995Z	Gift Box	1	
K5	XEAQCR228FAK	Telescopic Antenna	1				PRINTED MATERIALS		
K6	RUS419Z	Spring, Cassette Cover	1			RQX6611Z	Instruction Book	1	
K7	XTB3+40CFN	Screw, Cabinet M'tg	6						
K8	XYN3+F15FZ	Screw, Telescopic Antenna M'tg	1						
K9	RBN488Y	Knob, Volume	3						
K10	RBN502W	Knob, Tuning	1						
K11	RBN517X	Knob, Fine Tuning	1						
K12	RBS170Z	Knob, Function Selector	4						
K13	XTV3+10G	Screw, Spring M'tg	1						
		ELECTRICAL PARTS							
E1	RZAX5030FX	Dial Chassis Assembly	1						
E1-1	RDY43Z	Shaft, Pulley	1						
E1-2	RDR20-3	Pulley, Dial	1						
E2	XANR11G30	Neon Lamp, Arrestor	1						
E3	RJS171Z	Socket, 2 Pin	1						
E4	RJS253Y	Socket, 3 Pin	1						
E5	RJS216Y	Socket, 4 Pin	1						
E6	RJP213Z	Plug, 2 Pin	1						
E7	RJP137Z	Plug, 3 Pin	1						
E8	RJP107Z	Plug, 4 Pin	1						
E9	RJP116Z	Plug, 5 Pin	1						
E10	RJT462Z	Terminal, Socket	14						
E11	QJC0018	Terminal, Earth	1						
E12	RJC511Z	Spring, Battery - Side	1						
E13	RMP151Z	Holder, LED	1						
E14	RUV387Z	Cover, Voltage Selector	1	Δ					
E15	RDD751Z	Drum, Dial	1						
E16	RDS4170A	Spring, Dial	1						
E17	RDX1008Z	Shaft, Tuning	1						
E18	RDZ05A	Cord, Dial	1						
			ROLL						
E19	RKD567Z	Dial Scale	1						
E20	RKE349Z	Jack Board	1						
E21	RDP818Z	Pointer, Dial	1						
E22	QBG1526B	Cover, Microphone	2						
E23	RJM142Z	Microphone	2						
E24	XYER3+BG14	Screw, Transformer M'tg	2						
E25	XSN26+8	Screw, Drum M'tg	1	S					
E26	XWA26B	Washer	1	S					
E27	XTV3+12GR	Red Screw, Circuit Board M'tg	19						
E28	XTN3+12B	Screw, Voltage Selector M'tg	1	S					